

WHAT IS CLAIMED IS:

1. A method for transmitting a data block having a sequence of data bits and a control message having control bits required for decoding the sequence of data bits, comprising the steps of:

puncturing a predetermined number of data bits of the data bits within the data block using a puncturer in a first transport channel for passing the data block;

repeating a control message within the control message using a repeater 10 in a second transport channel based on the predetermined number of punctured bits;

multiplexing the punctured data block and repeated control message; and transmitting the multiplexed bit to a receiver.

15 2. The method as claimed in claim 1, wherein the second transport channel includes the control message arranged at the head thereof.

3. The method as claimed in claim 1, wherein the second transport channel includes the control channel message arranged at the tail thereof.

20 4. The method as claimed in claim 1, wherein the control message is a message responding to a received data block.

5. The method as claimed in claim 1, wherein the control message 25 includes a serial number of a transmission data block, a version number of a given data block.

6. The method as claimed in claim 1, wherein the second transport channel has a transmission delay time equal to that of the first transport channel.

7. The method as claimed in claim 1, wherein the second transport channel has a transmission delay time less than that of the first transport channel.

8. An apparatus provided with a plurality of transport channels, for
5 transmitting a data block having a sequence of data bits and a control message
having control bits required for decoding the sequence of data bits, the apparatus
comprising:

a first rate matching part provided in a selected transport channel,
passing the data block, for puncturing a predetermined number of data bits of the
10 data bits within the data block;

a second rate matching part provided in another transport channel, for
repeating the control bits according to the predetermined number of punctured
bits; and

a multiplexer for multiplexing the output of the first rate matching part
15 and the output of the second rate matching part.

9. The method as claimed in claim 8, wherein the second transport
channel includes the control message arranged at the head thereof.

20 10. The method as claimed in claim 8, wherein the second transport
channel includes the control message arranged at the tail thereof.

11. The method as claimed in claim 8, wherein the control message
is a message responding to a received data block.

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12. The method as claimed in claim 8, wherein the control message
includes a serial number of a transmission data block, a version number of a
given data block.

30 13. The method as claimed in claim 8, wherein the second transport

channel has a transmission delay time equal to that of the first transport channel.

14. The method as claimed in claim 8, wherein the second transport channel has a transmission delay time less than that of the first transport channel.

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